



TRAI Assesses Network Quality Across Wayanad

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The Telecom Regulatory Authority of India (TRAI) released its Independent Drive Test (IDT) findings for the Wayanad, Kerala Licensed Service Area (LSA), covering extensive City/Highway routes during the month of October 2025. The drive tests, conducted under the supervision of the TRAI Regional Office, Bengaluru, were designed to capture real-world mobile network performance across diverse usage environments – Urban Zones, Institutional and Tourist Hotspots, Public Transport Hubs, and high-speed Corridors.

Between 14th October 2025 to 17th October 2025, TRAI teams conducted detailed tests across **251.6 Kms of City drive, 8 Hot spots, 7.0 Kms Walk Test and 265.3 Kms of Highway drive**. Technologies evaluated included 2G, 3G, 4G, and 5G, reflecting the service experience of users across multiple handset capabilities. The findings of IDT have been intimated to all the TSPs concerned for further necessary action.

Key Parameters Assessed:

a) **Voice Services:** Call Setup Success Rate (CSSR), Drop Call Rate (DCR), Call Setup Time, Call Silence Rate, Speech Quality (MOS), Coverage.

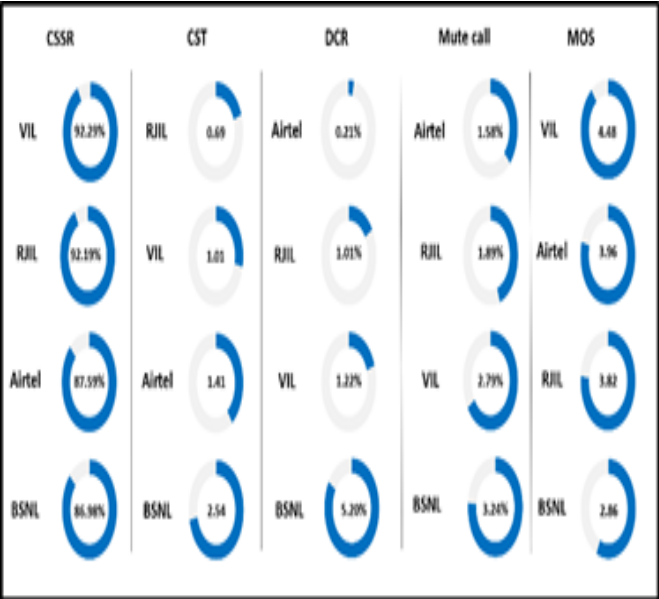
b) **Data Services:** Download/Upload Throughput, Latency, Jitter, Packet Drop Rate, and Video Streaming Delay.

Call Setup Success Rate - Airtel, BSNL, RJIL and VIL have 87.59%, 86.98%, 92.19% and 92.29% call setup success rate respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate - Airtel, BSNL, RJIL and VIL have drop call rate of 0.21%, 5.20%, 1.01% and 1.22% respectively in Auto-selection mode (5G/4G/3G/2G).

Summary of Performance against key QoS parameters

CSSR: Call Setup Success Rate i.e. (in %), **CST:** Call Setup Time (in seconds), **DCR:** Drop Call Rate (in %) & **MOS:** Mean Opinion Score representing typical voice quality.



Summary-Voice services

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have 87.59%, 86.98%, 92.19% and 92.29% call setup success rate respectively in Auto-selection mode (5G/4G/3G/2G).

Call Setup Time: Airtel, BSNL, RJIL and VIL have call setup time of 1.41, 2.54, 0.69 and 1.01 seconds respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.21%, 5.20%, 1.01% and 1.22% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence call rate of 1.58%, 3.24%, 1.89% and 2.79% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have average MOS of 3.96, 2.86, 3.82 and 4.48 respectively.

Summary-Data services

Data Download performance (Overall): Average download speed of Airtel (5G/4G/2G) is 104.79 Mbps, BSNL (4G/3G/2G) is 7.34 Mbps, RJIL (5G/4G) is 272.45 Mbps and VIL (4G/2G) is 17.73 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G/2G) is 16.71 Mbps, BSNL (4G/3G/2G) is 4.64 Mbps, RJIL (5G/4G) is 21.79 Mbps and VIL (4G/2G) is 12.19 Mbps.

Latency (Overall): Airtel, BSNL, RJIL and VIL 50th percentile latency is 41.31 ms, 47.63 ms, 39.42 ms, 32.82ms respectively.

Data performance - Hotspots (in Mbps):

Airtel- 4G D/L:	39.71	4G U/L:	4.39
5G D/L:	199.06	5G U/L:	34.38
BSNL- 4G D/L:	13.46	4G U/L:	10.27
RJIL- 4G D/L:	56.78	4G U/L:	12.42
5G D/L:	278.78	5G U/L:	15.60
VIL- 4G D/L:	14.54	4G U/L:	12.34

Units- "G/L" Download speed, "U/L" Upload speed

In Wayanad, the assessment included high-density neighbourhoods like Pozhuthana, Padinjarathara, Thariyode, Vengapally, Edavaka, Mananthavady, Kenichira, Batheri, Sultan Bathery, Krishnagiri, Meenangadi, Muttill North, Ambalavayal, Manjapaara, Kalpetta and Meppadi etc.

TRAI also evaluated real-world conditions at Government General Hospital Kalpetta, Kalpetta New Bus Stand Near NH766, Puliarmala Jain Temple Ananthanatha Swami Temple Kalpetta, Sulthan Bathery Municipality Office Sulthan Bathery, Sulthan Bathery Police Station Sulthan Bathery, Taluk Headquarters Hospital Sulthan Bathery, Wayanad District Collectorate Office Kalpetta, and Wayanad Heritage Museum Ambalavayal to reflect stationary user experience.

The walk tests, conducted on 15th and 16th October 2025 focused on Chembra Peak, Edakkal Caves Trail Ambalavayal, Karapuzha Dam Walkway & Garden Area Kalpetta, and Pookode Lake Eco-Path Lakkidi, capturing mobile network behaviour in crowded pedestrian and tourist environments.

The Highway drive test route covered Kalpetta to Bangalore passing through Muthanga, Gundlupete, Begur, Kadakola, Mysuru, Mandya, Channapatna, Basavanapura, Lakshmi and Kumbalgodu etc. to understand quality of service along the route, largely through forests.

The tests were conducted using TRAI-calibrated equipment and standardised protocols in real-time environments. The detailed report is available at TRAI website www.trai.gov.in. For any clarification/information, Shri Brajendra Kumar, Advisor (Regional Office, Bengaluru) TRAI may be contacted on email: adv.bengaluru@trai.gov.in or at Tel. No. +91-80-22865004.

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